

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	530	372/50.1,99,108.ccls. and (edge near2 emitting near2 laser or dfb or dbr) near6 (interface or mirror or angled or reflector or reflecting or scattering or scattered or grating or redirect\$4 or re-direct\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/05 09:41
L1	184	438/16,24,29,32,69.ccls. and (edge near2 emitting near2 laser or dfb or dbr) near6 (interface or mirror or angled or reflector or reflecting or scattering or scattered or grating or redirect\$4 or re-direct\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/05 09:40
S54	49	438/16,24,29,32,69.ccls. and (laser) near6 (test or testing or tested or inspection or inspecting or inspected or measur\$4 or monitor\$4 or characteriz\$5) near8 (interface or mirror or angled or reflector or reflecting or scattering or scattered or grating or redirect\$4 or re-direct\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/05 09:26
L3	179	372/50.1,99,108.ccls. and (laser) near6 (test or testing or tested or inspection or inspecting or inspected or measur\$4 or monitor\$4 or characteriz\$5) near8 (interface or mirror or angled or reflector or reflecting or scattering or scattered or grating or redirect\$4 or re-direct\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/05 09:26
S53	80	438/16,24,29,32,69.ccls. and (test or testing or redirect\$4 or re-direct\$4 or angled or angling) near6 (laser or edge near emit\$4 or facet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/05 09:11
L2	287	372/50.1,99,108.ccls. and (test or testing or redirect\$4 or re-direct\$4 or angled or angling) near6 (laser or edge near emit\$4 or facet)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/05 09:11
S52	381	257/E33.072.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 17:12
S51	40	257/E33.071.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 17:07

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S50	565	257/E33.068.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 17:06
S49	374	257/E33.067.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 16:51
S48	326	438/69.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 16:25
S47	228	438/32.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 16:04
S45	284	438/24.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/05/04 15:47
S46	19	(US-20020088929-\$ or US-20050117834-\$ or US-20050135778-\$ or US-20050207696-\$ or US-20020176463-\$ or US-20020196826-\$ or US-20030099273-\$ or US-20030223672-\$ or US-20040013378-\$).did. or (US-6741624-\$ or US-6459716-\$ or US-6487224-\$ or US-6611544-\$ or US-6631005-\$ or US-6668000-\$ or US-5912872-\$ or US-6337871-\$ or US-6449296-\$ or US-4653058-\$).did.	US-PGPUB; USPAT	OR	ON	2006/05/04 15:30
S44	448	(dfb or dbr or edge near2 laser or side near2 laser) and (re-direct\$3 or redirect\$3 or (alter\$4 or chang\$4 or divert\$4 or different or differing) near2 (direction or orientation or angle)) near2 (beam or emitted or emission or emitting or emitting or laser) near6 (grating or interface or mirror)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:43

## EAST Search History

S43	453	(dfb or dbr or edge near2 laser or side near2 laser) and (re-direct\$3 or redirect\$3 or (alter\$4 or chang\$4 or divert\$4 or different or differing) near2 (direction or orientation or angle)) near2 (beam or emitted or emission or emitting or emitting or laser) same (test or testing or tested or monitor\$3 or photodetect\$4 or detect\$4 or measur\$5 or sensor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 12:43
S42	131	laser and (integral or integrated or integration) near6 (wafer near level or wafer-level) near4 (test or testing or detection or detecting or monitor or monitoring or known near good)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 10:36
S41	502	(edge near emitting or dfb or dbr or edge-emitting or horizontal) near2 laser and facet near6 (grating or photodetector or photo-detector or (light or photo) near2 (monitor\$4 or detect\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 10:14
S40	101	(edge near emitting or dfb or dbr) near2 laser near15 (test or testing or tested) near5 (pre-singulat\$4 or pre-cut\$4 or wafer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 09:53
S39	329	(edge near emitting or dfb or dbr) near2 laser near10 (testing or test or sensor or monitor)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/21 09:26
S38	18	(US-20030099273-\$ or US-20040013378-\$ or US-20050135778-\$ or US-20020196826-\$ or US-20020176463-\$ or US-20050117834-\$ or US-20030223672-\$ or US-20050207696-\$).did. or (US-6631005-\$ or US-6668000-\$ or US-6611544-\$ or US-5912872-\$ or US-6741624-\$ or US-6449296-\$ or US-6487224-\$ or US-6337871-\$ or US-4653058-\$ or US-6459716-\$).did.	US-PGPUB; USPAT	OR	ON	2006/04/21 09:13

# Interference Search

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L11	6	((laser or dbr or dfb) and (redirect\$4 or re-direct\$4 or (change or alter\$5) near direction) near3 (beam or emission or emitted or light) near5 (edge or facet) and (test or testing or inspect\$4 or monitor\$4 or measur\$5)).clm.	US-PGPUB	OR	ON	2006/05/05 10:17
L12	5	((laser or dbr or dfb) and (on-wafer or wafer near scale or (pre or before) near (singulation or cutting or dicing or scribing or cleaving)) near3 (test or testing or inspect\$4 or monitor\$4 or measur\$5)).clm.	US-PGPUB	OR	ON	2006/05/05 10:19
L14	17	((laser or light near emitting near device or dfb or dbr) and (facet) and (test or testing or tested or inspection or inspecting or inspected or measur\$4 or monitor\$4 or characteriz\$5) near5 (interface or mirror or reflector or reflecting or scattering or scattered or grating or redirect\$4 or re-direct\$4)).clm.	US-PGPUB	OR	ON	2006/05/05 10:22
L15	39	((laser or light near emitting near device or dfb or dbr) and (facet) and (reflector or reflecting or scattering or scattered or redirect\$4 or re-direct\$4) near3 (grating or incline\$2 or interface)).clm.	US-PGPUB	OR	ON	2006/05/05 10:24
L16	28	((laser or light near emitting near device or dfb or dbr) and (facet) and (reflector or reflecting or scattering or scattered or redirect\$4 or re-direct\$4) near3 (surface)).clm.	US-PGPUB	OR	ON	2006/05/05 10:25
L17	2	(laser and facet and interface and test\$4 and beam near5 (divert\$4 or redirect\$4 or re-direct\$4 or (chang\$4 or alter\$5 or modify\$4) near3 (orientation or direction))).clm.	US-PGPUB	OR	ON	2006/05/05 10:27